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1101

#2

OIPE

## RAW SEQUENCE LISTING

DATE: 01/02/2002

PATENT APPLICATION: US/09/918,029

TIME: 14:53:38

Input Set : N:\Crf3\RULE60\09918029.raw

Output Set: N:\CRF3\01022002\I918029.raw

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1 <110> APPLICANT: Fallaux, Frits J.
2   Hoeben, Robert C.
3   Bout, Abraham
4   Valerio, Domenico
5   Van der Eb, Alex J.
6 <120> TITLE OF INVENTION: PACKAGING SYSTEMS FOR HUMAN RECOMBINANT ADENOVIRUS TO
7   BE USED
8   IN GENE THERAPY
9 <130> FILE REFERENCE: 3833.2US
10 <140> CURRENT APPLICATION NUMBER: 09/918,029
11 <141> CURRENT FILING DATE: 2001-07-30
12 <150> PRIOR APPLICATION NUMBER: 09/506,548
13 <151> PRIOR FILING DATE: 2000-02-16
14 <150> PRIOR APPLICATION NUMBER: PCT/NL96/00244
15 <151> PRIOR FILING DATE: 1996-06-14
16 <150> PRIOR APPLICATION NUMBER: EP 95201728.3
17 <151> PRIOR FILING DATE: 1995-06-26
18 <150> PRIOR APPLICATION NUMBER: EP 95201611.1
19 <151> PRIOR FILING DATE: 1995-06-15
20 <160> NUMBER OF SEQ ID NOS: 22
21 <170> SOFTWARE: Corel WordPerfect 8.0
23 <210> SEQ ID NO: 1
24 <211> LENGTH: 21
25 <212> TYPE: DNA
26 <213> ORGANISM: Artificial Sequence
27 <220> FEATURE:
W--> 28 <221> NAME/KEY:
29 <222> LOCATION:
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32   cgtgtagtgt atttataccc g
34 <210> SEQ ID NO: 2
35 <211> LENGTH: 21
36 <212> TYPE: DNA
37 <213> ORGANISM: Artificial Sequence
38 <220> FEATURE:
W--> 39 <221> NAME/KEY:
40 <222> LOCATION:
41 <223> OTHER INFORMATION: Description of Artifical Sequence: Primer Ea-2
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43   tcgtcactgg gtggaaagcc a
45 <210> SEQ ID NO: 3
46 <211> LENGTH: 21
47 <212> TYPE: DNA
48 <213> ORGANISM: Artificial Sequence
49 <220> FEATURE:
W--> 50 <221> NAME/KEY:

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ENTERED

21

21

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51 <222> LOCATION:
52 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer Ea-3
53 <400> SEQUENCE: 3
54      taccgcgcgt cctaaaatgg c                                21
56 <210> SEQ ID NO: 4
57 <211> LENGTH: 20
58 <212> TYPE: DNA
59 <213> ORGANISM: Artificial Sequence
60 <220> FEATURE:
W--> 61 <221> NAME/KEY:
62 <222> LOCATION:
63 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer Ea-5
64 <400> SEQUENCE: 4
65      tggacttgag ctgtaaacgc                                20
67 <210> SEQ ID NO: 5
68 <211> LENGTH: 21
69 <212> TYPE: DNA
70 <213> ORGANISM: Artificial Sequence
71 <220> FEATURE:
W--> 72 <221> NAME/KEY:
73 <222> LOCATION:
74 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer Ep-2
75 <400> SEQUENCE: 5
76      gcctccatgg aggtcagatg t                                21
78 <210> SEQ ID NO: 6
79 <211> LENGTH: 20
80 <212> TYPE: DNA
81 <213> ORGANISM: Artificial Sequence
82 <220> FEATURE:
W--> 83 <221> NAME/KEY:
84 <222> LOCATION:
85 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer Eb-1
86 <400> SEQUENCE: 6
87      gcttgagccc gagacatgtc                                20
89 <210> SEQ ID NO: 7
90 <211> LENGTH: 24
91 <212> TYPE: DNA
92 <213> ORGANISM: Artificial Sequence
93 <220> FEATURE:
W--> 94 <221> NAME/KEY:
95 <222> LOCATION:
96 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer Eb-2
97 <400> SEQUENCE: 7
98      cccctcgagc tcaatctgta tctt                                24
100 <210> SEQ ID NO: 8
101 <211> LENGTH: 27
102 <212> TYPE: DNA
103 <213> ORGANISM: Artificial Sequence
104 <220> FEATURE:

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W--> 105 <221> NAME/KEY:
      106 <222> LOCATION:
      107 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer SV40-1
      108 <400> SEQUENCE: 8
      109      gggggatccg aacttggtta ttgcagc
      111 <210> SEQ ID NO: 9
      112 <211> LENGTH: 25
      113 <212> TYPE: DNA
      114 <213> ORGANISM: Artificial Sequence
      115 <220> FEATURE:
W--> 116 <221> NAME/KEY:
      117 <222> LOCATION:
      118 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer SV40-2
      119 <400> SEQUENCE: 9
      120      gggagatcta gacatgataa gatac
      122 <210> SEQ ID NO: 10
      123 <211> LENGTH: 27
      124 <212> TYPE: DNA
      125 <213> ORGANISM: Artificial Sequence
      126 <220> FEATURE:
W--> 127 <221> NAME/KEY:
      128 <222> LOCATION:
      129 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer Ad5-1
      130 <400> SEQUENCE: 10
      131      gggagatctg tactgaaatg tgtgggc
      133 <210> SEQ ID NO: 11
      134 <211> LENGTH: 24
      135 <212> TYPE: DNA
      136 <213> ORGANISM: Artificial Sequence
      137 <220> FEATURE:
W--> 138 <221> NAME/KEY:
      139 <222> LOCATION:
      140 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer Ad5-2
      141 <400> SEQUENCE: 11
      142      ggaggctgca gtctccaacg gcgt
      144 <210> SEQ ID NO: 12
      145 <211> LENGTH: 27
      146 <212> TYPE: DNA
      147 <213> ORGANISM: Artificial Sequence
      148 <220> FEATURE:
W--> 149 <221> NAME/KEY:
      150 <222> LOCATION:
      151 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer ITR1
      152 <400> SEQUENCE: 12
      153      gggggatcct caaatcgtca cttccgt
      155 <210> SEQ ID NO: 13
      156 <211> LENGTH: 27
      157 <212> TYPE: DNA
      158 <213> ORGANISM: Artificial Sequence

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159 <220> FEATURE:
W--> 160 <221> NAME/KEY:
161 <222> LOCATION:
162 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer ITR2
163 <400> SEQUENCE: 13
164      ggggtctaga catcatcaat aatatac                                27
166 <210> SEQ ID NO: 14
167 <211> LENGTH: 32
168 <212> TYPE: DNA
169 <213> ORGANISM: Artificial Sequence
170 <220> FEATURE:
W--> 171 <221> NAME/KEY:
172 <222> LOCATION:
173 <223> OTHER INFORMATION: Description of Artificial Sequence: PCR primer PCR/MLP1
174 <400> SEQUENCE: 14
175      ggcgaaattcg tcgacatcat caataatata cc                            32
177 <210> SEQ ID NO: 15
178 <211> LENGTH: 32
179 <212> TYPE: DNA
180 <213> ORGANISM: Artificial Sequence
181 <220> FEATURE:
W--> 182 <221> NAME/KEY:
183 <222> LOCATION:
184 <223> OTHER INFORMATION: Description of Artificial Sequence: PCT primer
185      PCR/MLP2
186 <400> SEQUENCE: 15
187      ggcgaaattcg gtaccatcat caataatata cc                            32
189 <210> SEQ ID NO: 16
190 <211> LENGTH: 17
191 <212> TYPE: DNA
192 <213> ORGANISM: Artificial Sequence
193 <220> FEATURE:
W--> 194 <221> NAME/KEY:
195 <222> LOCATION:
196 <223> OTHER INFORMATION: Description of Artificial Sequence: PCT primer PCR/MLP3
197 <400> SEQUENCE: 16
198      ctgtgtacac cggcgca                                            17
200 <210> SEQ ID NO: 17
201 <211> LENGTH: 50
202 <212> TYPE: DNA
203 <213> ORGANISM: Artificial Sequence
204 <220> FEATURE:
W--> 205 <221> NAME/KEY:
206 <222> LOCATION:
207 <223> OTHER INFORMATION: Description of Artificial Sequence: PCT primer HP/asp1
208 <400> SEQUENCE: 17
209      gtacactgac ctagtgccgc ccgggcaaag cccgggcggc actaggtcag        50
211 <210> SEQ ID NO: 18
212 <211> LENGTH: 50

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Input Set : N:\Crif3\RULE60\09918029.raw  
 Output Set: N:\CRF3\01022002\I918029.raw

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213 <212> TYPE: DNA
214 <213> ORGANISM: Artificial Sequence
215 <220> FEATURE:
W--> 216 <221> NAME/KEY:
217 <222> LOCATION:
218 <223> OTHER INFORMATION: Description of Artificial Sequence: PCT primer HP/asp2
219 <400> SEQUENCE: 18
220      gtacctgacc tagtgccgcc cgggctttgc ccgggcggca ctaggtcagt      50
222 <210> SEQ ID NO: 19
223 <211> LENGTH: 55
224 <212> TYPE: DNA
225 <213> ORGANISM: Artificial Sequence
226 <220> FEATURE:
W--> 227 <221> NAME/KEY:
228 <222> LOCATION:
229 <223> OTHER INFORMATION: Description of Artificial Sequence: PCT primer HP/clal
230 <400> SEQUENCE: 19
231      gtacattgac ctagtgccgc ccgggcaaag cccgggcggc actagggtcaa tcgat      55
233 <210> SEQ ID NO: 20
234 <211> LENGTH: 55
235 <212> TYPE: DNA
236 <213> ORGANISM: Artificial Sequence
237 <220> FEATURE:
W--> 238 <221> NAME/KEY:
239 <222> LOCATION:
240 <223> OTHER INFORMATION: Description of Artificial Sequence: primer HP/cia2
241 <400> SEQUENCE: 20
242      gtacatcgat tgacctagtg ccgcccgggc tttgcccggg cggcactagg tcaat      55
244 <210> SEQ ID NO: 21
245 <211> LENGTH: 5620
246 <212> TYPE: DNA
247 <213> ORGANISM: Artificial Sequence
248 <220> FEATURE:
W--> 249 <221> NAME/KEY: Ad5 left terminus
250 <222> LOCATION: 1..457
251 <221> NAME/KEY: enhancer
252 <222> LOCATION: 458..969
253 <221> NAME/KEY: exon
254 <222> LOCATION: 970..1204
255 <221> NAME/KEY: gene
256 <222> LOCATION: 1218..2987
257 <221> NAME/KEY: polyA_signal
258 <222> LOCATION: 3018..3131
W--> 259 <221> NAME/KEY: pUC12 backbone
260 <222> LOCATION: 3132..5620
261 <221> NAME/KEY: gene
262 <222> LOCATION: 4337..5191
263 <223> OTHER INFORMATION: Description of Artificial Sequence: Plasmid pICL
264 <400> SEQUENCE: 21

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## VERIFICATION SUMMARY

DATE: 01/02/2002

PATENT APPLICATION: US/09/918,029

TIME: 14:53:39

Input Set : N:\Crf3\RULE60\09918029.raw

Output Set: N:\CRF3\01022002\I918029.raw

L:28 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:1  
L:39 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:2  
L:50 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:3  
L:61 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:4  
L:72 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:5  
L:83 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:6  
L:94 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:7  
L:105 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:8  
L:116 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:9  
L:127 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:10  
L:138 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:11  
L:149 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:12  
L:160 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:13  
L:171 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:14  
L:182 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:15  
L:194 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:16  
L:205 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:17  
L:216 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:18  
L:227 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:19  
L:238 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:20  
L:249 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:21  
L:259 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:21